

SESSION  
FULL ESTIMATED COST 0.90 77.96

=> d his

(FILE 'HOME' ENTERED AT 16:01:26 ON 26 APR 2007)

FILE 'REGISTRY' ENTERED AT 16:01:41 ON 26 APR 2007

L1 1 S NATEGLINIDE/CN  
L2 STR 105816-04-4  
L3 35 S L2 FAM FUL

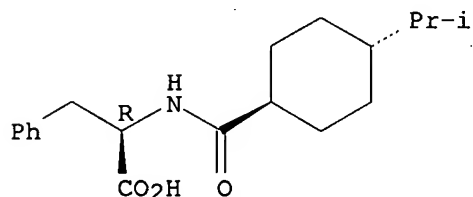
FILE 'STNGUIDE' ENTERED AT 16:05:19 ON 26 APR 2007

=> d l1

YOU HAVE REQUESTED DATA FROM FILE 'REGISTRY' - CONTINUE? (Y)/N:y

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS on STN  
RN 105816-04-4 REGISTRY  
ED Entered STN: 21 Dec 1986  
CN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]- (CA  
INDEX NAME)  
OTHER CA INDEX NAMES:  
CN D-Phenylalanine, N-[[4-(1-methylethyl)cyclohexyl]carbonyl]-, trans-  
OTHER NAMES:  
CN (-)-N-[(trans-4-Isopropylcyclohexyl)carbonyl]-D-phenylalanine  
CN A 4166  
CN AY 4166  
CN D-Nateglinide  
CN DJN 608  
CN Fastic  
CN Nateglinide  
CN SDZ-DJN 608  
CN Senaglinide  
CN Starlix  
CN Starlix DS  
CN Starsis  
FS STEREOSEARCH  
DR 418766-62-8  
MF C19 H27 N O3  
CI COM  
SR CA  
LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, BIOSIS, BIOTECHNO,  
CA, CABA, CAPLUS, CASREACT, CBNB, CHEMCATS, CIN, CSCHM, DDFU, DRUGU,  
EMBASE, IMSDRUGNEWS, IMSPATENTS, IMSRESEARCH, IPA, MEDLINE, MRCK\*,  
PATDPASPC, PHAR, PIRA, PROMT, PROUSDDR, PS, RTECS\*, SCISEARCH,  
SYNTHLINE, TOXCENTER, USAN, USPAT2, USPATFULL  
(\*File contains numerically searchable property data)

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

533 REFERENCES IN FILE CA (1907 TO DATE)  
10 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
536 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.06

80.48

FILE 'CAPLUS' ENTERED AT 16:15:22 ON 26 APR 2007

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FILE COVERS 1907 - 26 Apr 2007 VOL 146 ISS 18

FILE LAST UPDATED: 25 Apr 2007 (20070425/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

=> s 105816-04-4 and ( acetone or acetonitrile or nitromethane)

REGISTRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...

Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

L5 536 L4

176436 ACETONE

86464 ACETONITRILE

10858 NITROMETHANE

L6 31 L5 AND ( ACETONE OR ACETONITRILE OR NITROMETHANE)

=> s 16 and py<2002

21882646 PY<2002

L7 3 L6 AND PY<2002

=> d 1-3 ibib abs hitstr

L7 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2001:571834 CAPLUS

DOCUMENT NUMBER: 136:172892

TITLE: Test for cis-isomer from N-(trans-4-isopropylcyclohexyl-carbonyl)-D-phenylalanine by RP-HPLC

AUTHOR(S): Si, Duanyun; Zhong, Dafang

CORPORATE SOURCE: Center of Instrumental Analysis, Shenyang  
Pharmaceutical University, Shenyang, 110016, Peop.  
Rep. China

SOURCE: Yaowu Fenxi Zazhi (2001), 21(3), 153-154

CODEN: YFZADL; ISSN: 0254-1793

PUBLISHER: Yaowu Fenxi Zazhi Bianji Weiyuanhui

DOCUMENT TYPE: Journal

LANGUAGE: Chinese

AB A non-chiral RP-HPLC method was developed for testing of the cis-isomer from N-(trans-4-isopropylcyclohexylcarbonyl)-D-phenylalanine (I). Nucleosil C18 column was used with acetonitrile - 0.05 mol L<sup>-1</sup> NH<sub>4</sub>H<sub>2</sub>PO<sub>4</sub> (22.5:77.5) (pH 7.4) as mobile phase (a flow rate of 1.0 mL min<sup>-1</sup>), and 210 nm as UV detection wavelength. The electrospray ionization-quadrupole ion trap mass spectrometer was applied to verify the separation. The chromatog. peaks with a good resolution of 1.51 at 54.7 min and 49.8 min resulted from I and its cis-isomer, resp. This assay could be used as an ordinary way to test for the cis-isomer impurity of I.

IT 105816-04-4

RL: ANT (Analyte); ANST (Analytical study)

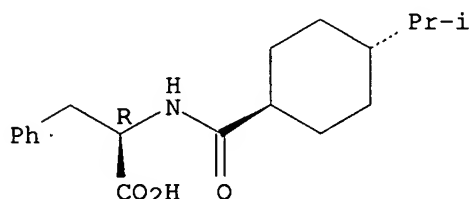
(determination of cis-isomer from

N-(trans-4-isopropylcyclohexyl-carbonyl)-D-phenylalanine by RP-HPLC)

RN 105816-04-4 CAPLUS

CN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]- (CA INDEX NAME)

Absolute stereochemistry.



L7 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1995:964992 CAPLUS

DOCUMENT NUMBER: 124:155974

TITLE: Crystals of N-(trans-4-isopropylcyclohexylcarbonyl)-D-phenylalanine and methods for preparing them

INVENTOR(S): Sumikawa, Michito; Koguchi, Yoshihito; Ohgane, Takao; Irie, Yasuo; Takahashi, Satoji

PATENT ASSIGNEE(S): Ajinomoto Co., Inc., Japan

SOURCE: U.S., 12 pp. Cont.-in-part of U.S. Ser. No. 166,144.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.

KIND DATE

APPLICATION NO.

DATE

US 5463116	A	19951031	US 1994-190460	19940202 <--
US 5488150	A	19960130	US 1993-166144	19931214 <--
CA 2114678	A1	19950802	CA 1994-2114678	19940201 <--
CA 2114678	C	19990427		

PRIORITY APPLN. INFO.:

		JP 1991-189696	A	19910730
		JP 1991-199453	A	19910808
		US 1992-921224	B1	19920729
		US 1993-166144	A2	19931214

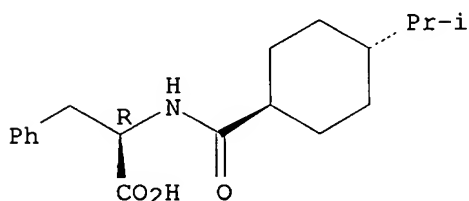
AB Stable crystals of N-(trans-4-isopropylcyclohexylcarbonyl)-D-phenylalanine for pharmaceutical formulation may be produced by treating this compound with a solvent at a temperature of at least 10° and forming crystals in the solvent at a temperature of at least 10°. For example, crystals may be formed by crystallization out of solution, or may be formed from solid particles of the compound suspended in a solvent. Crystals formed in this way have different m.p., IR spectrum and X-ray diffraction patterns from previously known forms of the compound and have enhanced processability, e.g., stability to grinding.

IT 105816-04-4  
 RL: PEP (Physical, engineering or chemical process); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses) (crystallization of (isopropylcyclohexylcarbonyl)phenylalanine for enhanced stability to grinding)

RN 105816-04-4 CAPLUS

CN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]- (CA INDEX NAME)

Absolute stereochemistry.



L7 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1993:261002 CAPLUS

DOCUMENT NUMBER: 118:261002

TITLE: Stable crystals of N-(trans-4-isopropylcyclohexylcarbonyl)-D-phenylalanine

INVENTOR(S): Sumikawa, Michito; Koguchi, Yoshihito; Ohgane, Takao; Irie, Yasuo; Takahashi, Satoji

PATENT ASSIGNEE(S): Ajinomoto Co., Inc., Japan

SOURCE: Eur. Pat. Appl., 14 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 526171	A2	19930203	EP 1992-306895	19920729 <--
EP 526171	A3	19930505		
EP 526171	B1	19970305		
R: AT, CH, DE, DK, ES, FR, GB, IT, LI, LU, NL, SE				
JP 05208943	A	19930820	JP 1992-202686	19920729 <--

JP 2508949	B2	19960619		
AT 149483	T	19970315	AT 1992-306895	19920729 <--
ES 2100291	T3	19970616	ES 1992-306895	19920729 <--
CA 2114678	A1	19950802	CA 1994-2114678	19940201 <--
CA 2114678	C	19990427		

PRIORITY APPLN. INFO.:

JP 1991-189696	A	19910730
JP 1991-199453	A	19910808

AB Stable H-type crystals of N-(trans-4-isopropylcyclohexylcarbonyl)-D-phenylalanine (I) are obtained by treating I with a solvent, at >10°. A solution of 5 g I in 20 mL acetone was added to a stirred mixture of 40 mL acetone and 60 mL water, at 25° to precipitate H-type crystals. The crystals have different m.p., IR spectrum and x-ray diffraction patterns from known forms of I and are not converted to other forms when ground.

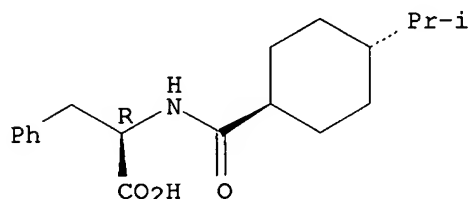
IT 105816-04-4P

RL: PREP (Preparation)  
(crystals, stable, preparation of)

RN 105816-04-4 CAPLUS

CN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]- (CA INDEX NAME)

Absolute stereochemistry.



on STN

NEWS 24 APR 02 JICST-EPLUS removed from database clusters and STN

NEWS EXPRESS NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT  
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 16:01:26 ON 26 APR 2007

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 16:01:41 ON 26 APR 2007

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STRUCTURE FILE UPDATES: 25 APR 2007 HIGHEST RN 932710-95-7

DICTIONARY FILE UPDATES: 25 APR 2007 HIGHEST RN 932710-95-7

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TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

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REGISTRY includes numerically searchable data for experimental and  
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experimental property data in the original document. For information  
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> s nateglinide/cn

L1 1 NATEGLINIDE/CN

=> d

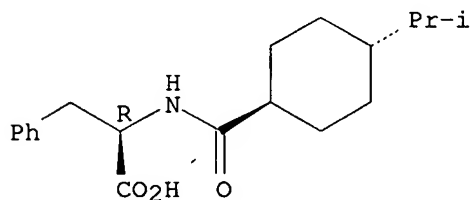
L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS on STN

RN 105816-04-4 REGISTRY

ED Entered STN: 21 Dec 1986

CN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]- (CA  
 INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN D-Phenylalanine, N-[[4-(1-methylethyl)cyclohexyl]carbonyl]-, trans-  
 OTHER NAMES:  
 CN (-)-N-[(trans-4-Isopropylcyclohexyl)carbonyl]-D-phenylalanine  
 CN A 4166  
 CN AY 4166  
 CN D-Nateglinide  
 CN DJN 608  
 CN Fastic  
 CN Nateglinide  
 CN SDZ-DJN 608  
 CN Senaglinide  
 CN Starlix  
 CN Starlix DS  
 CN Starsis  
 FS STEREOSEARCH  
 DR 418766-62-8  
 MF C19 H27 N O3  
 CI COM  
 SR CA  
 LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, BIOSIS, BIOTECHNO,  
 CA, CABA, CAPLUS, CASREACT, CBNB, CHEMCATS, CIN, CSCHM, DDFU, DRUGU,  
 EMBASE, IMSDRUGNEWS, IMSPATENTS, IMSRESEARCH, IPA, MEDLINE, MRCK\*,  
 PATDPASPC, PHAR, PIRA, PROMT, PROUSDDR, PS, RTECS\*, SCISEARCH,  
 SYNTHLINE, TOXCENTER, USAN, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

533 REFERENCES IN FILE CA (1907 TO DATE)  
 10 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 536 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> str 105816-04-4

:end

L2 STRUCTURE CREATED

=> s 12 fam ful

FULL SEARCH INITIATED 16:03:32 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 436 TO ITERATE

100.0% PROCESSED 436 ITERATIONS  
 SEARCH TIME: 00.00.01

35 ANSWERS

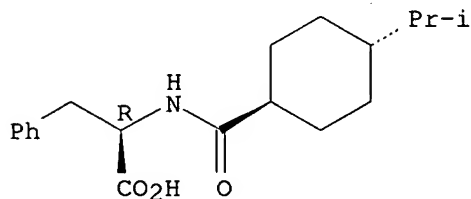
L3 35 SEA FAM FUL L2

=> d scan

L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN  
IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, compd.  
with methanol (9CI)  
MF C19 H27 N O3 . x C H4 O

CM 1

Absolute stereochemistry.



CM 2

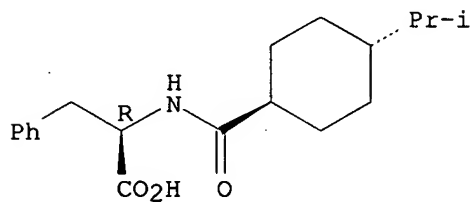
H3C-OH

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):34

L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN  
IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, compd.  
with heptane (9CI)  
MF C19 H27 N O3 . x C7 H16

CM 1

Absolute stereochemistry.



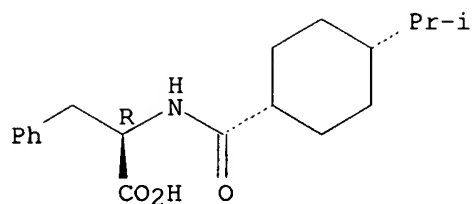
CM 2

Me-(CH2)5-Me

L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN  
IN D-Phenylalanine, N-[[cis-4-(1-methylethyl)cyclohexyl]carbonyl]- (9CI)  
MF C19 H27 N O3

Absolute stereochemistry.



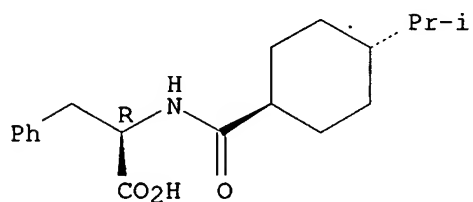


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN  
 IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, compd.  
 with ethanol (9CI)  
 MF C19 H27 N O3 . x C2 H6 O

CM 1

Absolute stereochemistry.



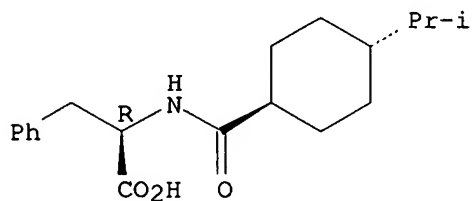
CM 2

H<sub>3</sub>C-CH<sub>2</sub>-OH

L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN  
 IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, compd.  
 with β-cyclodextrin (3:1) (9CI)  
 MF C42 H70 O35 . 3 C19 H27 N O3

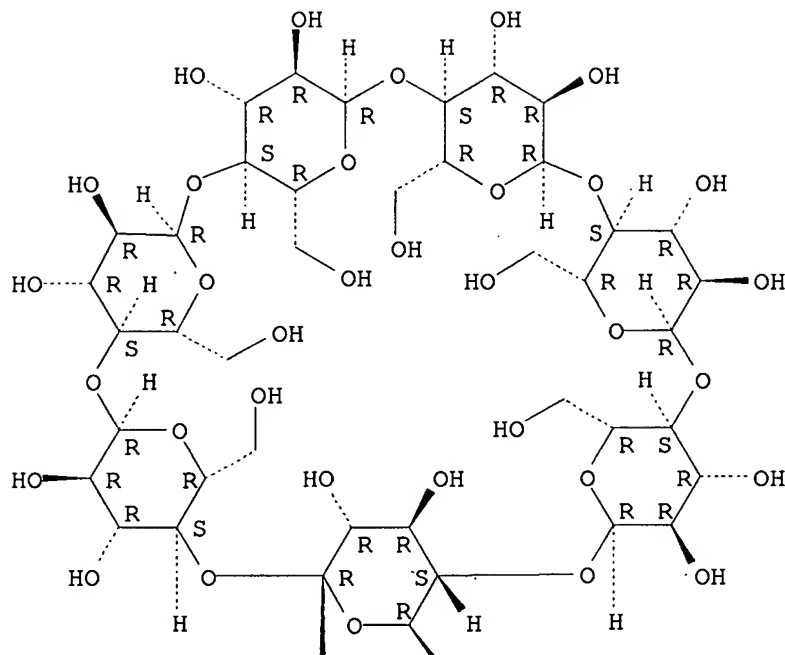
CM 1

Absolute stereochemistry.



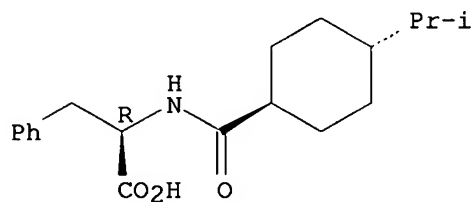
CM 2

Absolute stereochemistry.



L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN  
 IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, hydrate  
 (9CI)  
 MF C19 H27 N O3 . x H2 O

Absolute stereochemistry.



● x H<sub>2</sub>O

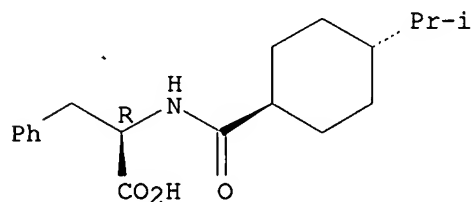
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN

IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, compd.  
with 1-butanol (9CI)  
MF C19 H27 N O3 . x C4 H10 O

CM 1

Absolute stereochemistry.



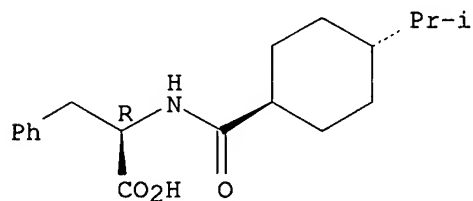
CM 2

H<sub>3</sub>C-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-OH

L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN  
IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, compd.  
with β-cyclodextrin (2:1) (9CI)  
MF C42 H70 O35 . 2 C19 H27 N O3

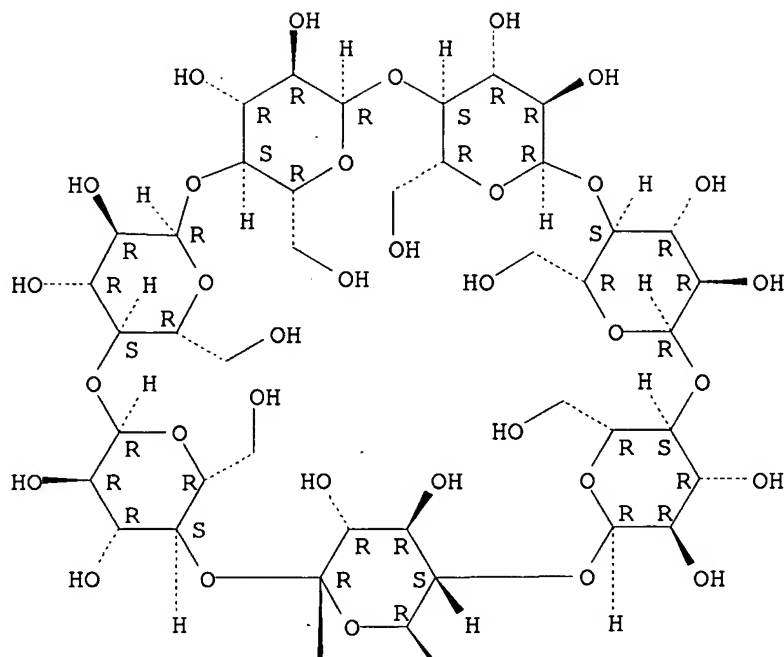
CM 1

Absolute stereochemistry.



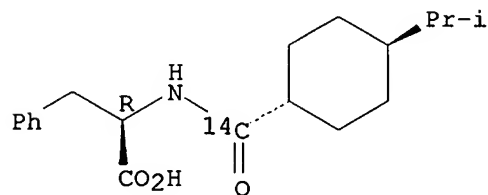
CM 2

Absolute stereochemistry.



L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN  
 IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl-14C]-  
 (9CI)  
 MF C19 H27 N O3

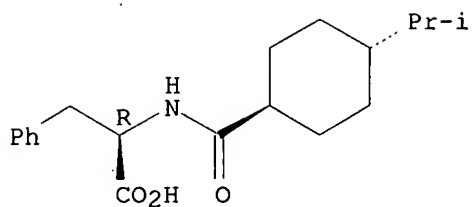
Absolute stereochemistry.



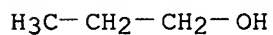
L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN  
 IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, compd.  
 with 1-propanol (9CI)  
 MF C19 H27 N O3 . x C3 H8 O

CM 1

Absolute stereochemistry.



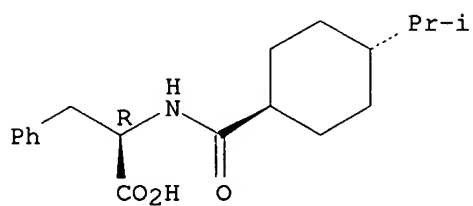
CM 2



L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN  
 IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, compd.  
 with 2A,2B,2C,2D,2E,2F,2G,6A,6B,6C,6D,6E,6F,6G-tetradeca-O-methyl- $\beta$ -  
 cyclodextrin (1:1) (9CI)  
 MF C56 H98 O35 . C19 H27 N O3

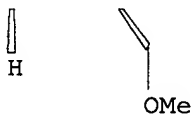
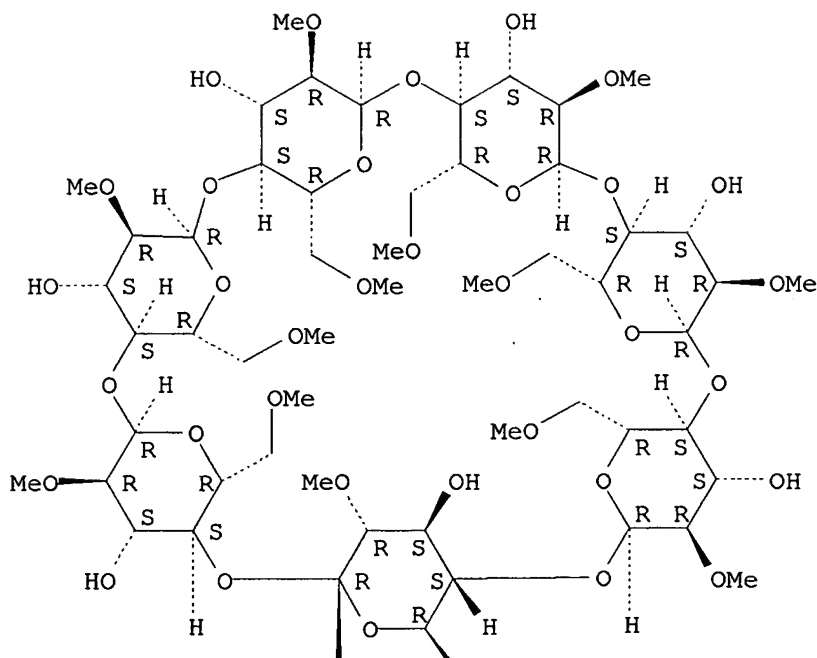
CM 1

Absolute stereochemistry.



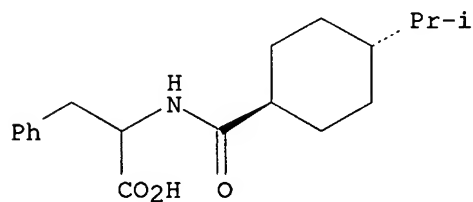
CM 2

Absolute stereochemistry.



L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN  
 IN Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]- (9CI)  
 MF C19 H27 N O3

Relative stereochemistry.

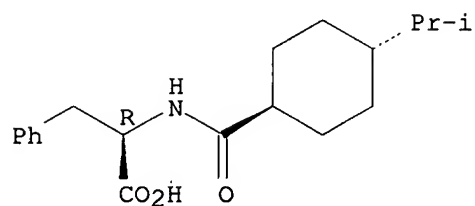


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

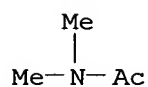
L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN  
 IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, compd.  
 with N,N-dimethylacetamide (9CI)  
 MF C19 H27 N O3 . x C4 H9 N O

CM 1

Absolute stereochemistry.



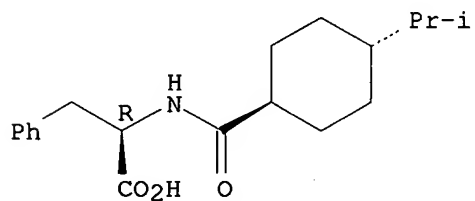
CM 2



L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN  
IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, compd.  
with 2A,2B,2C,2D,2E,2F,2G,3A,3B,3C,3D,3E,3F,3G,6A,6B,6C,6D,6E,6F,6G-  
heneicosa-O-methyl- $\beta$ -cyclodextrin (1:1) (9CI)  
MF C63 H112 O35 . C19 H27 N O3

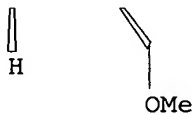
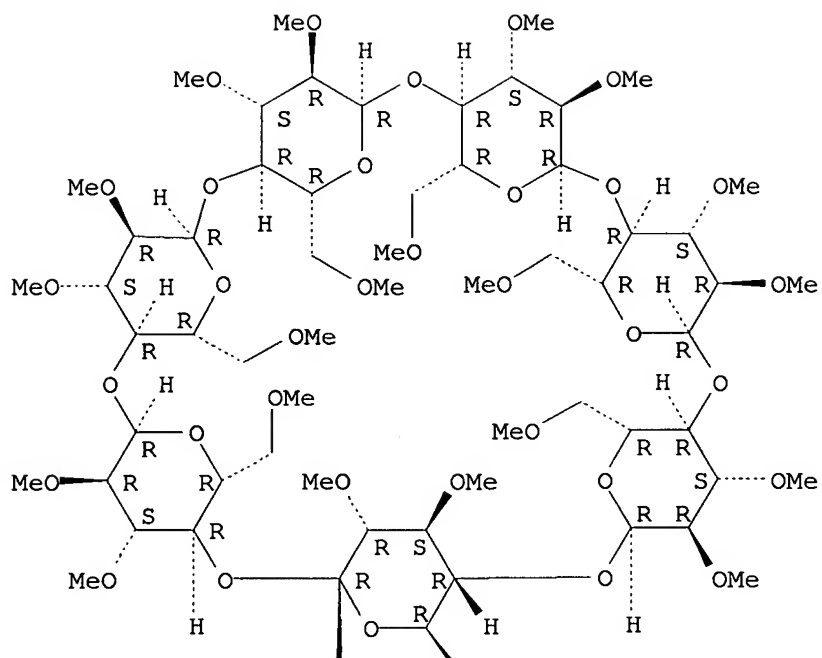
CM 1

Absolute stereochemistry.



CM 2

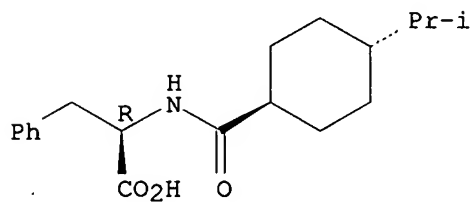
Absolute stereochemistry.



L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN  
 IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, compd.  
 with 1-deoxy-1-(methylamino)-D-glucitol (1:1) (9CI)  
 MF C19 H27 N O3 . C7 H17 N O5

CM 1

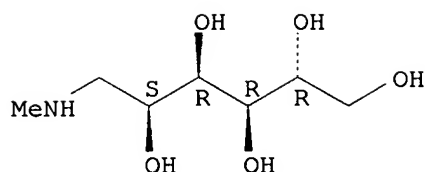
Absolute stereochemistry.



CM 2

Absolute stereochemistry.



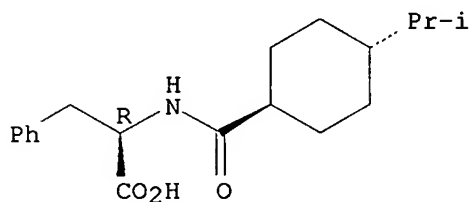


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

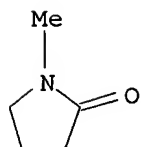
L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN  
 IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, compd.  
 with 1-methyl-2-pyrrolidinone (9CI)  
 MF C19 H27 N O3 . x C5 H9 N O

CM 1

Absolute stereochemistry.



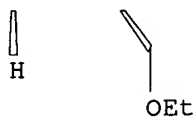
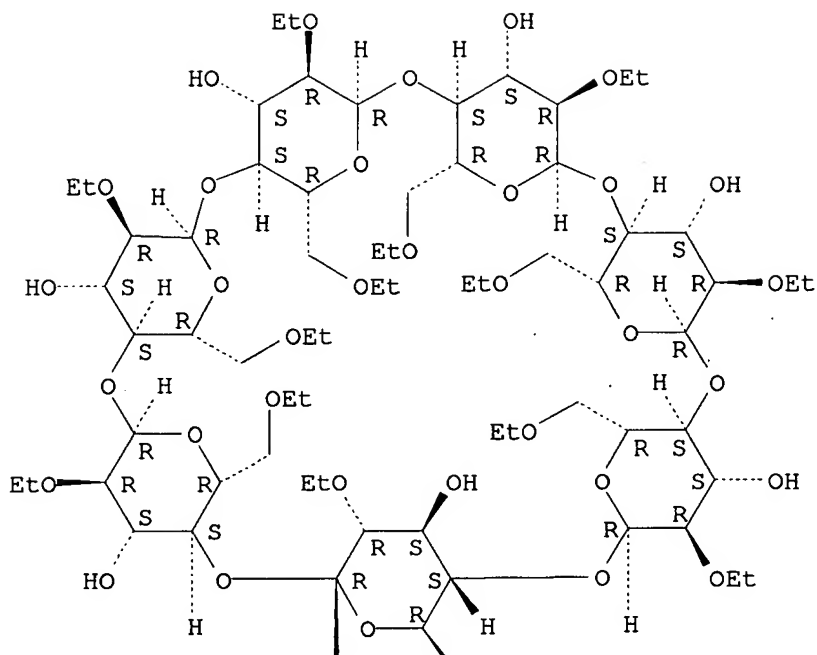
CM 2



L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN  
 IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, compd.  
 with 2A,2B,2C,2D,2E,2F,2G,6A,6B,6C,6D,6E,6F,6G-tetradeca-O-ethyl-β-  
 cyclodextrin (1:1) (9CI)  
 MF C70 H126 O35 . C19 H27 N O3

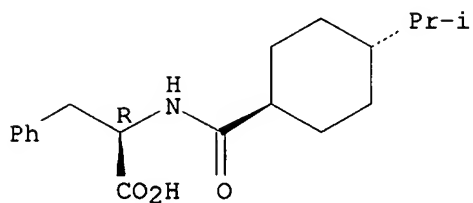
CM 1

Absolute stereochemistry.



CM 2

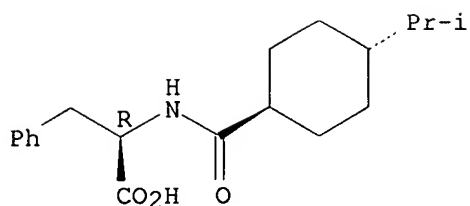
Absolute stereochemistry.



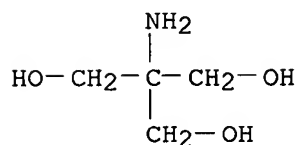
L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN  
 IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, compd.  
 with 2-amino-2-(hydroxymethyl)-1,3-propanediol (1:1) (9CI)  
 MF C19 H27 N O3 . C4 H11 N O3

CM 1

Absolute stereochemistry.



CM 2

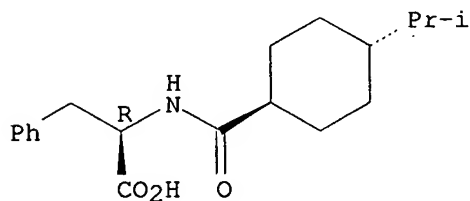


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

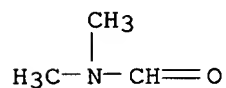
L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN  
 IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, compd.  
 with N,N-dimethylformamide (9CI)  
 MF C19 H27 N O3 . x C3 H7 N O

CM 1

Absolute stereochemistry.



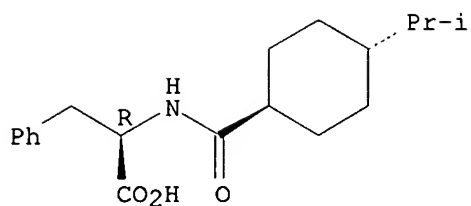
CM 2 .



L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN  
 IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, compd.  
 with β-cyclodextrin (1:1) (9CI)  
 MF C42 H70 O35 . C19 H27 N O3

CM 1

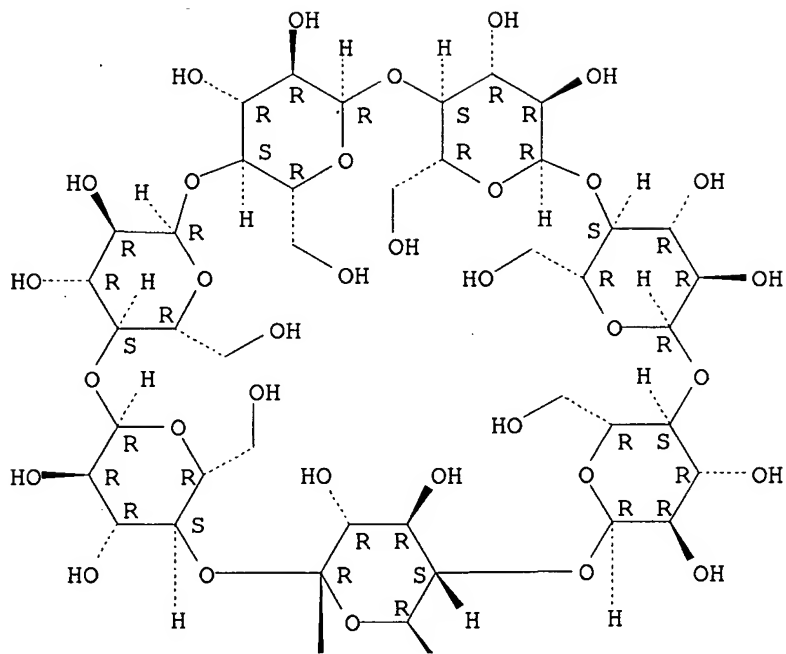
Absolute stereochemistry.



CM 2

Absolute stereochemistry.

PAGE 1-A



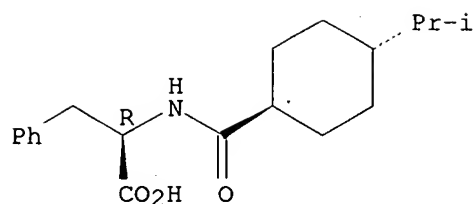
PAGE 2-A



L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN  
 IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, compd.  
 with L-lysine (1:1) (9CI)  
 MF C19 H27 N O3 . C6 H14 N2 O2

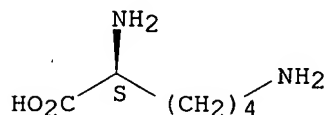
CM 1

Absolute stereochemistry.



CM 2

Absolute stereochemistry.

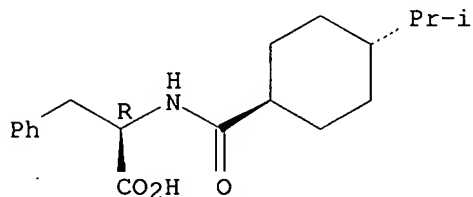


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN  
 IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, compd.  
 with 1,2-dimethoxyethane (9CI)  
 MF C19 H27 N O3 . x C4 H10 O2

CM 1

Absolute stereochemistry.



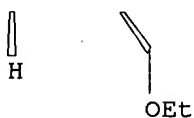
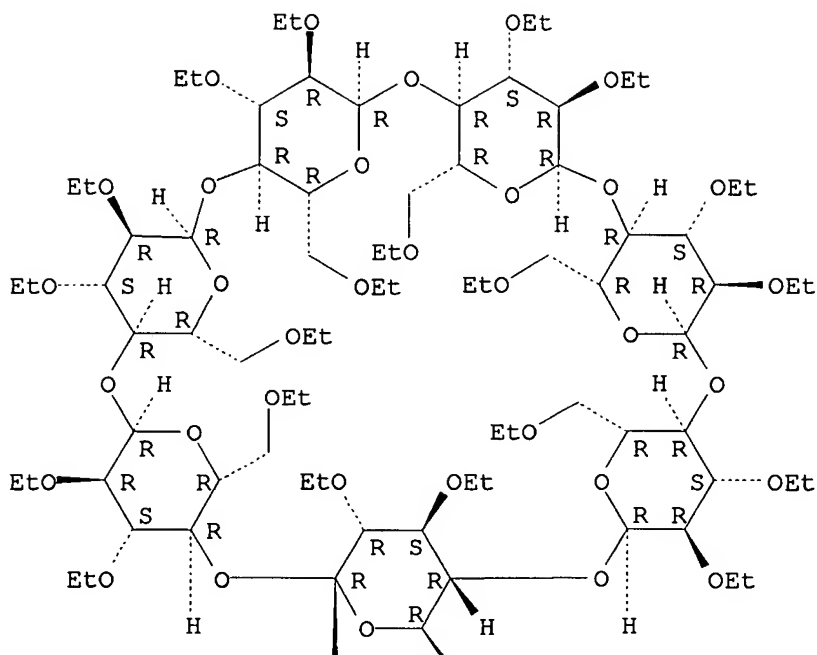
CM 2

MeO-CH<sub>2</sub>-CH<sub>2</sub>-OMe

L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN  
 IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, compd.  
 with 2A,2B,2C,2D,2E,2F,2G,3A,3B,3C,3D,3E,3F,3G,6A,6B,6C,6D,6E,6F,6G-  
 heneicosa-O-ethyl-β-cyclodextrin (1:1) (9CI)  
 MF C84 H154 O35 . C19 H27 N O3

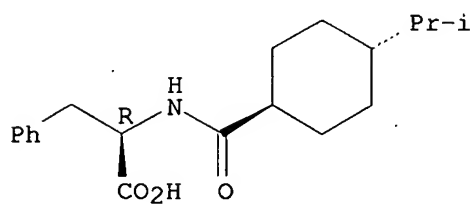
CM 1

Absolute stereochemistry.



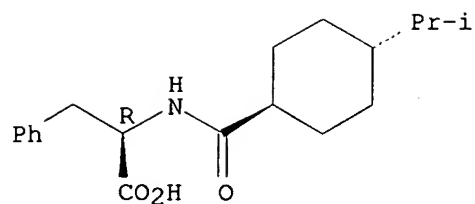
CM 2

Absolute stereochemistry.



L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN  
 IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-,  
 monosodium salt (9CI)  
 MF C19 H27 N O3 . Na

Absolute stereochemistry.

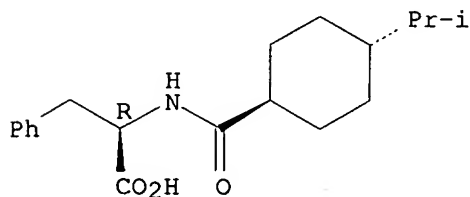


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN  
 IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, compd.  
 with dimethylbenzene (9CI)  
 MF C19 H27 N O3 . x C8 H10

CM 1

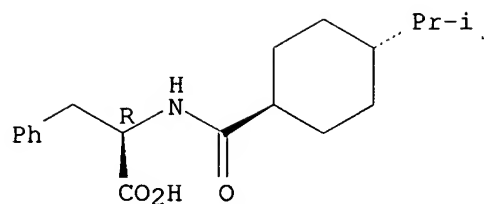
Absolute stereochemistry.



2 ( D1-Me )

L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN  
 IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-,  
 hydrochloride (2:1), hydrate (2:1) (9CI)  
 MF C19 H27 N O3 . 1/2 Cl H . 1/2 H2 O

Absolute stereochemistry.



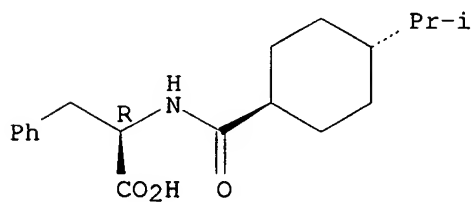
● 1/2 HCl

● 1/2 H<sub>2</sub>O

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 35 ANSWERS REGISTRY. COPYRIGHT 2007 ACS on STN  
 IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-,  
 monopotassium salt (9CI)  
 MF C19 H27 N O3 . K

Absolute stereochemistry.



● K

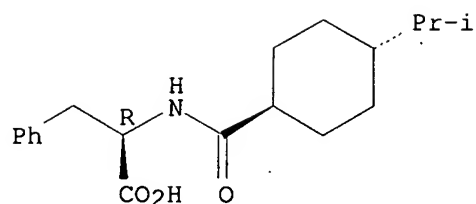
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN  
 IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, compd.  
 with tetrachloromethane (9CI)  
 MF C19 H27 N O3 . x C Cl4

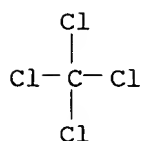
CM 1

Absolute stereochemistry.



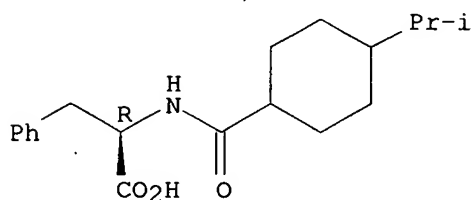


CM 2



L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN  
 IN D-Phenylalanine, N-[[4-(1-methylethyl)cyclohexyl]carbonyl]- (9CI)  
 MF C19 H27 N O3

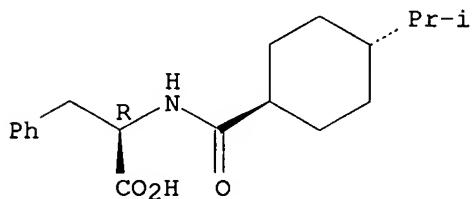
Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN  
 IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, calcium  
 salt (2:1) (9CI)  
 MF C19 H27 N O3 . 1/2 Ca

Absolute stereochemistry.



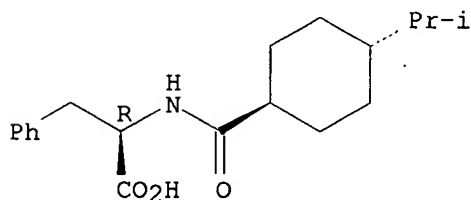
● 1/2 Ca

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN  
IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, compd.  
with 1,2-dichloroethane (9CI)  
MF C19 H27 N O3 . x C2 H4 Cl2

CM 1

Absolute stereochemistry.

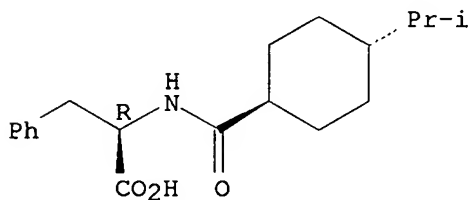


CM 2

Cl-CH2-CH2-Cl

L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN  
IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-  
MF C19 H27 N O3  
CI COM

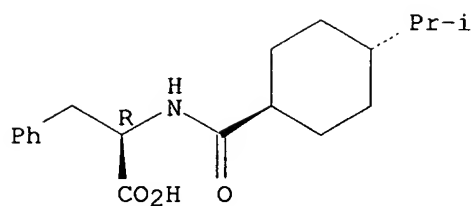
Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN  
IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-,  
ammonium salt (9CI)  
MF C19 H27 N O3 . x H3 N

Absolute stereochemistry.



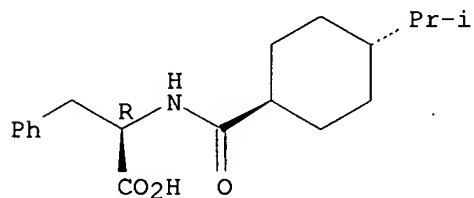
● x NH<sub>3</sub>

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

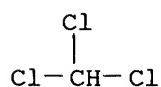
L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN  
 IN D-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-, compd.  
 with trichloromethane (9CI)  
 MF C19 H27 N O3 . x C H Cl3

CM 1

Absolute stereochemistry.

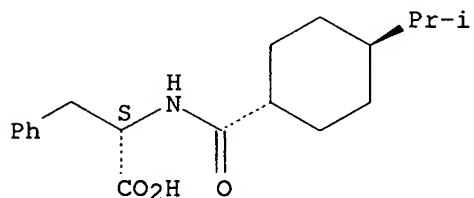


CM 2



L3 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN  
 IN L-Phenylalanine, N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]- (9CI)  
 MF C19 H27 N O3

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

## Refine Search

### Search Results -

Terms	Documents
L1 and 562/\$	16

**Database:**

US Pre-Grant Publication Full-Text Database  
US Patents Full-Text Database  
US OCR Full-Text Database  
EPO Abstracts Database  
JPO Abstracts Database  
Derwent World Patents Index  
IBM Technical Disclosure Bulletins

**Search:**

L2

Refine Search

Recall Text

Clear

Interrupt

### Search History

**DATE:** Thursday, April 26, 2007   [Purge Queries](#)   [Printable Copy](#)   [Create Case](#)

**Set Name Query**

side by side

**Hit Count Set Name**

result set

*DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ*

<u>L2</u>	L1 and 562/\$	16	<u>L2</u>
<u>L1</u>	nateglinide.ti. and (acetone or nitromethane or acetonitrile)	19	<u>L1</u>

END OF SEARCH HISTORY

## Hit List

[First Hit](#)[Clear](#)[Generate Collection](#)[Print](#)[Fwd Refs](#)[Bkwd Refs](#)[Generate OACS](#)

Search Results - Record(s) 1 through 10 of 19 returned.

☐ 1. Document ID: US 20070004804 A1

L1: Entry 1 of 19

File: PGPB

Jan 4, 2007

PGPUB-DOCUMENT-NUMBER: 20070004804

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20070004804 A1

TITLE: Polymorphic forms of nateglinide

PUBLICATION-DATE: January 4, 2007

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Yahalomi; Ronit	Kiryat Bialik		IL
Shapiro; Evgeny	Haifa		IL
Dolitzky; Ben-Zion	Petach Tiqva		IL
Gozlan; Igal	Haifa		IL
Gome; Boaz	Rishon-Lezion		IL
Wizel; Shlomit	Petah Tiqva		IL

US-CL-CURRENT: 514/563; 562/450

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 2. Document ID: US 20060148902 A1

L1: Entry 2 of 19

File: PGPB

Jul 6, 2006

PGPUB-DOCUMENT-NUMBER: 20060148902

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060148902 A1

TITLE: Process for the preparation of nateglinide, preferably in B-form

PUBLICATION-DATE: July 6, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Vigano'; Enrico	Lurago D'Erba		IT
Pizzatti; Enrica	Poggiridenti		IT
Lanfranconi; Simona	Montano Lucino		IT

Molteni; Renato	Inverigo	IT
Landonio; Ernesto	Rescaldina	IT

US-CL-CURRENT: 514/563; 562/450

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw D
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☐ 3. Document ID: US 20060004102 A1

L1: Entry 3 of 19

File: PGPB

Jan 5, 2006

PGPUB-DOCUMENT-NUMBER: 20060004102

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060004102 A1

TITLE: Polymorphic forms of nateglinide

PUBLICATION-DATE: January 5, 2006

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Wizel; Shlomit	Petah Tiqva		IL
Frenkel; Gustavo	Beer Sheva		IL
Gome; Boaz	Rishon-Lezion		IL

US-CL-CURRENT: 514/563; 562/450

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw D
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☐ 4. Document ID: US 20050234129 A1

L1: Entry 4 of 19

File: PGPB

Oct 20, 2005

PGPUB-DOCUMENT-NUMBER: 20050234129

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050234129 A1

TITLE: Salts of nateglinide

PUBLICATION-DATE: October 20, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Sutton, Paul Allen	Parsippany	NJ	US
Vivilecchia, Richard Victor	Rockaway	NJ	US
Parker, David John	West Milford	NJ	US
De La Cruz, Marilyn	Matawan	NJ	US

US-CL-CURRENT: 514/563; 514/62, 536/55.3, 562/450

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 5. Document ID: US 20050101672 A1

L1: Entry 5 of 19

File: PGPB

May 12, 2005

PGPUB-DOCUMENT-NUMBER: 20050101672  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20050101672 A1

TITLE: Nateglinide crystals

PUBLICATION-DATE: May 12, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Koguchi, Yoshihito	Kawasaki-Shi		JP
Nakao, Tomoko	Kawasaki-Shi		JP
Sumikawa, Michito	Kawasaki-Shi		JP

US-CL-CURRENT: 514/563; 562/450

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 6. Document ID: US 20050090552 A1

L1: Entry 6 of 19

File: PGPB

Apr 28, 2005

PGPUB-DOCUMENT-NUMBER: 20050090552  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20050090552 A1

TITLE: Polymorphic forms of nateglinide

PUBLICATION-DATE: April 28, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Yahalomi, Ronit	Kiryat Bialik		IL
Shapiro, Evgeny	Haifa		IL
Dolitzky, Ben-Zion	Petach Tiqva		IL
Gozlan, Igal	Haifa		IL
Gome, Boaz	Rishon-Lezion		IL

US-CL-CURRENT: 514/563; 562/450

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 7. Document ID: US 20050075400 A1

L1: Entry 7 of 19

File: PGPB

Apr 7, 2005

PGPUB-DOCUMENT-NUMBER: 20050075400

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050075400 A1

TITLE: Polymorphic forms of nateglinide

PUBLICATION-DATE: April 7, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Yahalomi, Ronit	Kiryat Bialik		IL
Shapiro, Evgeny	Haifa		IL
Dolitzky, Ben-Zion	Petach Tiqva		IL
Gozlan, Yigael	Ramot Sapir		IL
Gome, Boaz	Rishon-Lezion		IL

US-CL-CURRENT: 514/563; 562/445

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 8. Document ID: US 20050014949 A1

L1: Entry 8 of 19

File: PGPB

Jan 20, 2005

PGPUB-DOCUMENT-NUMBER: 20050014949

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050014949 A1

TITLE: Polymorphic forms of nateglinide

PUBLICATION-DATE: January 20, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Yahalomi, Ronit	Kiryat Bialik		IL
Shapiro, Evgeny	Haifa		IL
Dolitzky, Ben-Zion	Petach Tiqva		IL
Gozlan, Yigael	Ramot Sapir		IL
Gome, Boaz	Rishon-Lezion		IL

US-CL-CURRENT: 546/270.4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 9. Document ID: US 20050014836 A1



L1: Entry 9 of 19

File: PGPB

Jan 20, 2005

PGPUB-DOCUMENT-NUMBER: 20050014836  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20050014836 A1

TITLE: Crystalline form of nateglinide

PUBLICATION-DATE: January 20, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Frenkel, Gustavo	Beer Sheva		IL
Gome, Boaz	Rishon-Lezion		IL
Wizel, Shlomit	Petah Tiqva		IL

US-CL-CURRENT: 514/563; 562/450

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 10. Document ID: US 20040181089 A1

L1: Entry 10 of 19

File: PGPB

Sep 16, 2004

PGPUB-DOCUMENT-NUMBER: 20040181089  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040181089 A1

TITLE: Polymorphic forms of nateglinide

PUBLICATION-DATE: September 16, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Yahalomi, Ronit	Kiryat Bialik		IL
Shapiro, Evgeny	Haifa		IL
Dolitzky, Ben-Zion	Petach Tiqva		IL
Gozlan, Yigael	Ramot Sapir		IL
Gome, Boaz	Rishon-Lezion		IL

US-CL-CURRENT: 562/450

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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nateglinide.ti. and (acetone or nitromethane

or acetonitrile)
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19
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☐ 11. Document ID: US 20040152782 A1

L1: Entry 11 of 19

File: PGPB

Aug 5, 2004

PGPUB-DOCUMENT-NUMBER: 20040152782

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040152782 A1

TITLE: Process for preparing nateglinide and intermediates thereof

PUBLICATION-DATE: August 5, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Yahalomi, Ronit	Kiryat Bialik		IL
Shapiro, Evgeny	Haifa		IL
Dolitzky, Ben-Zion	Petach Tiqva		IL
Gozlan, Yigael	Ramot Sapir		IL

US-CL-CURRENT: 514/563; 562/450, 562/862

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw D
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☐ 12. Document ID: US 20040116526 A1

L1: Entry 12 of 19

File: PGPB

Jun 17, 2004

PGPUB-DOCUMENT-NUMBER: 20040116526

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040116526 A1

TITLE: Polymorphic forms of nateglinide

PUBLICATION-DATE: June 17, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Yahalomi, Ronit	Kiryat Bialik		IL
Shapiro, Evgeny	Haifa		IL
Dolitzky, Ben-Zion	Petach Tiqva		IL
Gozlan, Yigael	Ramot Sapir		IL
Gome, Boaz	Rishon-Lezion		IL

US-CL-CURRENT: 514/563; 562/450

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 13. Document ID: US 20040030182 A1

L1: Entry 13 of 19

File: PGPB

Feb 12, 2004

PGPUB-DOCUMENT-NUMBER: 20040030182

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040030182 A1

TITLE: Methods for producing nateglinide crystals

PUBLICATION-DATE: February 12, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Takahashi, Daisuke	Yokkaichi-Shi		JP
Nishi, Seiichi	Yokkaichi-Shi		JP
Takahashi, Satoji	Yokkaichi-Shi		JP

US-CL-CURRENT: 562/450

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 14. Document ID: US 20040029968 A1

L1: Entry 14 of 19

File: PGPB

Feb 12, 2004

PGPUB-DOCUMENT-NUMBER: 20040029968

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040029968 A1

TITLE: Nateglinide-containing hydrophilic pharmaceutical preparation

PUBLICATION-DATE: February 12, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ninomiya, Nobutaka	Kawasaki-Shi		JP
Makino, Chisato	Kawasaki-Shi		JP
Yabuki, Akira	Kawasaki-Shi		JP

US-CL-CURRENT: 514/563; 562/450

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 15. Document ID: US 20040014815 A1

L1: Entry 15 of 19

File: PGPB

Jan 22, 2004

PGPUB-DOCUMENT-NUMBER: 20040014815

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040014815 A1

TITLE: Nateglinide-containing preparation

PUBLICATION-DATE: January 22, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ninomiya, Nobutaka	Kawasaki-Shi		JP
Makino, Chisato	Kawasaki-Shi		JP
Yabuki, Akira	Kawasaki-Shi		JP

US-CL-CURRENT: 514/563

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 16. Document ID: US 7208622 B2

L1: Entry 16 of 19

File: USPT

Apr 24, 2007

US-PAT-NO: 7208622

DOCUMENT-IDENTIFIER: US 7208622 B2

TITLE: Methods for producing nateglinide crystals

## PRIOR-PUBLICATION:

DOC-ID	DATE
US 20040030182 A1	February 12, 2004

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 17. Document ID: US 7148376 B2

L1: Entry 17 of 19

File: USPT

Dec 12, 2006

US-PAT-NO: 7148376

DOCUMENT-IDENTIFIER: US 7148376 B2

TITLE: Polymorphic forms of nateglinide

## PRIOR-PUBLICATION:

DOC-ID	DATE
US 20040116526 A1	June 17, 2004

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 18. Document ID: US 6861553 B2

L1: Entry 18 of 19

File: USPT

Mar 1, 2005

US-PAT-NO: 6861553

DOCUMENT-IDENTIFIER: US 6861553 B2

TITLE: Process for preparing nateglinide and intermediates thereof

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 19. Document ID: EP 1656339 A1, WO 2005110972 A1, US 20060004102 A1

L1: Entry 19 of 19

File: DWPI

May 17, 2006

DERWENT-ACC-NO: 2006-038491

DERWENT-WEEK: 200634

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TITLE: New crystalline form of nateglinide ammonium salt and crystalline forms of nateglinide in the form of lambda useful for lowering blood glucose levels

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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Terms	Documents
nateglinide.ti. and (acetone or nitromethane or acetonitrile)	19

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